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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/844,717	04/27/2001	Arun Shah	68110328.714	9551

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BAKER & MCKENZIE  
PATENT DEPARTMENT  
2001 ROSS AVENUE  
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EXAMINER

ABRISHAMKAR, KAVEH

ART UNIT PAPER NUMBER

2131

DATE MAILED: 08/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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## Office Action Summary

Application No.

09/844,717

Applicant(s)

SHAH ET AL.

Examiner

Kaveh Abrishamkar

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 27 April 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 2,3,4,5,6.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. This action is in response to the communication filed on April 27, 2001. Claims 1 – 14 were received for consideration. No preliminary amendments for the claims were received. Claims 1 – 14 are currently under consideration.

### ***Information Disclosure Statement***

2. Initialed and dated copies of the Applicant's IDS form are attached to the Office action.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1 – 6 and 8 – 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Thuraingham et al. (U.S. Patent 5,355,474).

Regarding claim 1, Thuraingham discloses:

A method for restricting access to information, said method comprising:

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receiving a request from a requester, said request associated with a plurality of request levels of a corresponding plurality of dimensions (column 4 lines 29 – 52); and

comparing each of the plurality of request levels with each of a corresponding set of security levels (column 4 lines 29 – 52).

Regarding claim 8, Thuraishingham discloses:

A computer readable medium for storing a plurality of instructions for restricting access to information, said plurality of instructions comprising:

receiving a request from a requester, said request associated with a plurality of request levels of a corresponding plurality of dimensions (column 4 lines 29 – 52); and

comparing each of the plurality of request levels with each of a corresponding set of security levels (column 4 lines 29 – 52).

Claim 2 is rejected as applied above in rejecting claim 1. Furthermore, Thuraishingham discloses:

The method of claim 1, further comprising:

retrieving the set of security levels from a plurality of sets of security levels, wherein each of the plurality of sets of security levels are associated with at least one requestor (column 3 lines 59 – 63).

Claim 3 is rejected as applied above in rejecting claim 1. Furthermore, Thuraishingham discloses:

The method of claim 1, further comprising:

generating a query for the request with the request levels, wherein each of the plurality of request levels are equal or exceed each of the corresponding set of security levels (column 9 line 50 – column 10 line 13); and

generating a query with at least one of the security levels, wherein at least one of the security levels exceeds a corresponding one of the request levels (column 9 line 50 – column 10 line 13).

Claim 4 is rejected as applied above in rejecting claim 1. Furthermore, Thuraishingham discloses:

The method of claim 1, wherein the request is associated with one or more request constraints, and further comprising:

retrieving one or more security constraints (column 8 lines 30 – 59); and

comparing each of the request constraints to a corresponding one of the security constraints (column 25 line 55 – column 26 line 20).

Claim 6 is rejected as applied above in rejecting claim 1. Furthermore, Thuraishingham discloses:

The method of claim 1, further comprising:

determining whether the requester is in a restricted group (column 10 line 53 – column 11 line 65);

wherein the requester is in a restricted group, adding a request level to the request, wherein the added request level indicates that the requester is in the restricted group (column 10 line 53 – column 11 line 65); and

wherein the requester is in an unrestricted group, adding request levels to the request, wherein the added request level indicates that the requester is in the unrestricted group (column 10 line 53 – column 11 line 65).

Claim 9 is rejected as applied above in rejecting claim 8. Furthermore, Thuraishingham discloses:

The computer readable medium of claim 8, wherein the plurality of instructions further comprising:

retrieving the set of security levels from a plurality of sets of security levels, wherein each of the plurality of sets of security levels are associated with at least one requester (column 3 line 59 – 63).

Claim 10 is rejected as applied above in rejecting claim 8. Furthermore, Thuraishingham discloses:

The computer readable medium of claim 8, wherein the plurality of instructions further comprising:

generating a query for the request, wherein each of the plurality of request levels are equal or exceed each of the corresponding set of security levels (column 9 line 50 – column 10 line 13); and

generating a query with at least one of the security levels, wherein at least one of the security levels exceeds a corresponding one of the request levels (column 9 line 50 – column 10 line 13).

Claim 11 is rejected as applied above in rejecting claim 8. Furthermore, Thuraishingham discloses:

The computer readable medium of claim 8, wherein the request is associated with one or more request constraints, and the plurality of instructions further comprising:  
retrieving one or more security constraints (column 8 lines 30 – 59); and  
comparing each of the request constraints to a corresponding one of the security constraints (column 25 line 55 – column 26 line 20).

Claim 13 is rejected as applied above in rejecting claim 8. Furthermore, Thuraishingham discloses:

The computer readable medium of claim 8, wherein the plurality of instructions further comprising:  
determining whether the requestor is in a restricted group (column 10 line 53 – column 11 line 65);  
wherein the requester is in a restricted group, adding a request level to the request, wherein the added request level indicates that the requester is in the restricted group (column 10 line 53 – column 11 line 65); and

wherein the requester is in an unrestricted group, adding request levels to the request, wherein the added request level indicates that the requestor is in the unrestricted group (column 10 line 53 – column 11 line 65).

Claim 5 is rejected as applied above in rejecting claim 4. Furthermore, Thuraishingham discloses:

The method of claim 4, further comprising:

generating the query wherein each of the request constraints is equivalent to the corresponding one of the security constraints (column 10 lines 35 – 52); and

denying the request, wherein one of the request constraints is different from the corresponding one of the security constraints (column 10 lines 35 – 52).

Claim 12 is rejected as applied above in rejecting claim 11. Furthermore, Thuraishingham discloses:

The computer readable medium of claim 11, wherein the plurality of instructions further comprising:

generating the query wherein each of the request constraints is equivalent to the corresponding one of the security constraints (column 10 lines 35 – 52); and

denying the request, wherein one of the request constraints is different from the corresponding one of the security constraints (column 10 lines 35 – 52).



***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 7 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thuraingham et al. (U.S. Patent 5,355,474) in view of Weissman et al. (U.S. Patent 6,212,524).

Claim 7 is rejected as applied above in rejecting claim 6. Furthermore, Thuraingham discloses:

The method of claim 6, further comprising:

determining one or more measures associated with the request (column 4 lines 29 – 52); and

comparing each of the requested levels and the added levels to a corresponding plurality of aggregate levels (column 2 lines 55 – column 3 line 7, column 4 lines 29 – 52).

Thuraingham does not explicitly disclose selecting a stargroup associated with the one or more measures associated with the request, wherein the stargroup further comprises one or more stars. Weissman discloses the use of multiple stargroups in a stargroup schema as a way to organize data (column 12 lines 24 – 48). Thuraingham discusses

a dimensional database, but does explicitly state that it must be in a star scheme.

Weissman states, "in a dimensional datamart, the data is typically organized as a star schema" (column 2 lines 26 – 33). Weissman further states, "the advantage of such a scheme is that it supports a top down business approach to the definition of the schema" (column 2 lines 35 – 40) and also "consistent and flexible" (column 2 lines 42 – 44). It can be seen that the security method disclosed by Thuraishingham can be used in conjunction with the star schema disclosed by Weissman, by the disclosure by Weissman that "in some embodiments of the invention, the metadata also includes security information" (column 8 lines 21 – 25). Weissman further states "the security information defines the level of access for various users to the various tables and fields in the datamart" (column 8 lines 21 – 25). This provides a top level view of the invention of Thuraishingham, which uses security information which automatically restricts access to the data. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to combine the security method disclosed by Thuraishingham with the star schema used by Weissman to provide a top down approach to the definition of schema, and to use a scheme that is both consistent and flexible.

Claim 14 is rejected as applied above in rejecting claim 13. Furthermore, Thuraishingham discloses:

The computer readable medium of claim 13, wherein the plurality of instructions further comprising:

determining one or more measures associated with the request (column 4 lines 29 – 52);

comparing each of the requested levels and the added levels to a corresponding plurality of aggregate levels (column 2 lines 55 – column 3 line 7, column 4 lines 29 – 52).

Thuraisingham does not explicitly disclose selecting a stargroup associated with the one or more measures associated with the request, wherein the stargroup further comprises one or more stars. Weissman discloses the use of multiple stargroups in a stargroup schema as a way to organize data (column 12 lines 24 – 48). Thuraisingham discusses a dimensional database, but does explicitly state that it must be in a star scheme.

Weissman states, "in a dimensional datamart, the data is typically organized as a star schema" (column 2 lines 26 – 33). Weissman further states, "the advantage of such a scheme is that it supports a top down business approach to the definition of the schema" (column 2 lines 35 – 40) and also "consistent and flexible" (column 2 lines 42 – 44). It can be seen that the security method disclosed by Thuraisingham can be used in conjunction with the star schema disclosed by Weissman, by the disclosure by

Weissman that "in some embodiments of the invention, the metadata also includes security information" (column 8 lines 21 – 25). Weissman further states "the security information defines the level of access for various users to the various tables and fields in the datamart" (column 8 lines 21 – 25). This provides a top level view of the invention of Thuraisingham, which uses security information which automatically restricts access to the data. Therefore, it would have been obvious to one of ordinary skill in the art at

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the time the applicant's invention was made to combine the security method disclosed by Thuraishingham with the star schema used by Weissman to provide a top down approach to the definition of schema, and to use a scheme that is both consistent and flexible.


### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kaveh Abrishamkar whose telephone number is 703-305-8892. The examiner can normally be reached on Monday thru Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

KA  
08/06/2004

  
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